

## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

- 1        1. (Currently amended) A computer-implemented method for selectively  
2        auditing accesses to a relational database, comprising:  
3                receiving a query for the relational database;  
4                selectively auditing an access to the relational database,  
5                        wherein selectively auditing the access involves  
6                        automatically modifying the query prior to processing the query,  
7                                wherein the an auditing condition for the selective auditing  
8                        specifies a condition based on a value of a field in a row in the  
9                        relational database, and  
10                        wherein satisfying the auditing condition allows selective  
11                        auditing of the query,  
12                        processing the modified query to produce a query result, wherein processing  
13                        the modified query includes:  
14                                creating the auditingaudit records only for rows in relational  
15                        tables accessed by the query and that satisfy the auditing condition,  
16                                and  
17                                recording the audit recordrecords in an audit record store;  
18                                and  
19                        returning the query result;

20           wherein if the query modifies at least one entry in the relational database,  
21   using a relational database system trigger to create and record the audit record for  
22   the modification to the relational database.

1           2 (Canceled).

1           3. (Previously presented) The method of claim 1, further comprising  
2   ensuring the case statement is evaluated near the end of the query processing so the  
3   case statement is evaluated only after other conditions of the query are satisfied.

1           4-6 (Canceled).

1           7. (Original) The method of claim 1, wherein the audit record includes:  
2   a user name for a user making the query;  
3   a time stamp specifying a time of the query; and  
4   a text of the query.

1           8. (Original) The method of claim 1, wherein the auditing condition  
2   includes a condition for a field within the relational database.

1           9. (Currently amended) A computer-readable storage medium storing  
2   instructions to be executed by a computer causing the computer to perform a  
3   method for selectively auditing accesses to a relational database, the method  
4   comprising:

5           receiving a query for the relational database;  
6           selectively auditing an access to the relational database,  
7                   wherein selectively auditing the access involves  
8                   automatically modifying the query prior to processing the query,  
9                   wherein thean auditing condition for the selective auditing  
10           specifies a condition based on a value of a field in a row in the

11 relational database, and  
12 wherein satisfying the auditing condition allows selective  
13 auditing of the query,  
14 processing the modified query to produce a query result, wherein processing  
15 the modified query includes:  
16 | creating the auditing audit records only for rows in relational  
17 | tables accessed by the query and that satisfy the auditing condition,  
18 | and  
19 | recording the audit record-records in an audit record store;  
20 | and  
21 returning the query result;  
22 wherein if the query modifies at least one entry in the relational database,  
23 the method further comprises using a relational database system trigger to create  
24 and record the audit record for the modification to the relational database.

1 10 (Canceled).

1            11. (Previously presented) The computer-readable storage medium of claim  
2            9, wherein the method further comprises ensuring the case statement is evaluated  
3            near the end of the query processing so the case statement is evaluated only after  
4            other conditions of the query are satisfied.

1           12. (Original) The computer-readable storage medium of claim 9, wherein  
2 the method further comprises retrieving the auditing condition for a given table  
3 from a data structure associated with the given table.

1 13-14 (Canceled).

1 15. (Original) The computer-readable storage medium of claim 9, wherein  
2 the audit record includes:

3           a user name for a user making the query;  
4           a time stamp specifying a time of the query; and  
5           a text of the query.

1           16. (Original) The computer-readable storage medium of claim 9, wherein  
2           the auditing condition includes a condition for a field within the relational database.

1           17. (Currently amended) An apparatus for selectively auditing accesses to a  
2           relational database, comprising:

3           a receiving mechanism configured to receive a query for the relational  
4           database;  
5           a selective auditing mechanism configured to selectively audit an access to  
6           the relational database,

7                            wherein selectively auditing the access involves  
8                            automatically modifying the query prior to processing the query,  
9                            wherein thean auditing condition for the selective auditing  
10                    specifies a condition based on a value of a field in a row in the  
11                    relational database, and

12                            wherein satisfying the auditing condition allows selective  
13                            auditing of the query,

14           a query processor configured to process the modified query to produce a  
15           query result, wherein processing the modified query includes:

16                            creating the auditingaudit records only for rows in relational  
17                            tables accessed by the query and that satisfy the auditing condition,  
18                            and

19                            recording the audit recordrecords in an audit record store;  
20                            and

21           a returning mechanism configured to return the query result;

22 wherein if the query modifies at least one entry in the relational database,  
23 the apparatus uses a relational database system trigger to create and record the audit  
24 record for the modification to the relational database.

1 18 (Canceled).

1 19. (Previously presented) The apparatus of claim 17, wherein the query  
2 modification mechanism is configured to ensure the case statement is evaluated  
3 near the end of the query processing so the case statement is evaluated only after  
4 other conditions of the query are satisfied.

1 20. (Original) The apparatus of claim 17, wherein the query modification  
2 mechanism is configured to retrieve the auditing condition for a given table from a  
3 data structure associated with the given table.

1 21-22 (Canceled).

1 23. (Original) The apparatus of claim 17, wherein the audit record includes:  
2 a user name for a user making the query;  
3 a time stamp specifying a time of the query; and  
4 a text of the query.

1 24. (Original) The apparatus of claim 17, wherein the auditing condition  
2 includes a condition for a field within the relational database.

1 25. (Previously presented) The method of claim 1, further comprising  
2 retrieving the auditing condition for a given table from a data structure associated  
3 with the given table.

1 26. (Currently amended) A computer-implemented method for selectively

2 auditing accesses to a relational database, comprising:  
3 receiving a database operation for the relational database;  
4 selectively auditing an access to the relational database based on an  
5 auditing condition, wherein the auditing condition for the selective auditing  
6 specifies a condition based on a value of a field in a row in the relational database;  
7 processing the database operation to produce a database operation result,  
8 wherein processing the database operation includes:  
9 | creating the auditing audit records only for selected rows in  
10 | the relational database that are accessed by the database operation  
11 | and that satisfy the auditing condition, and  
12 | recording the audit record records in an audit record store;  
13 | and  
14 returning the database operation result;  
15 wherein selectively auditing the access involves automatically modifying  
16 the database operation prior to processing the database operation,  
17 wherein satisfying the auditing condition allows selective auditing of the  
18 database operation and not for other rows;  
19 wherein satisfying the auditing condition allows selective auditing of the  
20 database operation; and  
21 wherein if the database operation modifies at least one entry in the  
22 relational database, using a relational database system trigger to create and record  
23 the audit record for the modification to the relational database.

1 27 (Canceled).

1 28. (Previously presented) The method of claim 26, wherein the auditing  
2 condition includes a condition for at least two fields within the relational database.

1           29. (Currently amended) A computer-readable storage medium storing  
2 instructions that when executed by a computer cause the computer to perform a  
3 method for selectively auditing accesses to a relational database, the method  
4 comprising:  
5           receiving a database operation for the relational database;  
6           selectively auditing an access to the relational database based on an  
7 auditing condition, wherein the auditing condition for the selective auditing  
8 specifies a condition based on a value of a field in a row in the relational database;  
9           processing the database operation to produce a database operation result,  
10 wherein processing the database operation includes:  
11           | creating the auditing audit records only for selected rows in  
12           | the relational database that are accessed by the database operation  
13           | and that satisfy the auditing condition, and  
14           | recording the audit record records in an audit record store;  
15           | and  
16           returning the database operation result;  
17           wherein selectively auditing the access involves automatically modifying  
18 the database operation prior to processing the database operation,  
19           wherein satisfying the auditing condition allows selective auditing of the  
20 database operation and not for other rows;  
21           wherein satisfying the auditing condition allows selective auditing of the  
22 database operation; and  
23           wherein if the database operation modifies at least one entry in the  
24 relational database, using a relational database system trigger to create and record  
25 the audit record for the modification to the relational database.

1           30 (Canceled).

1           31. (Previously presented) The computer-readable storage medium of  
2    claim 29, wherein the auditing condition includes a condition for at least two  
3    fields within the relational database.

1           32. (Currently amended) An apparatus for selectively auditing accesses to  
2    a relational database, comprising:  
3            a receiving mechanism configured to receive a database operation for the  
4    relational database;  
5            a selective auditing mechanism configured to selectively audit an access to  
6    the relational database based on an auditing condition, wherein the auditing  
7    condition for the selective auditing specifies a condition based on a value of a  
8    field in a row in the relational database;  
9            a processing mechanism configured to process the database operation to  
10    produce a database operation result;  
11            a creating mechanism configured to create the audit records only  
12    for selected rows in the relational database that are accessed by the database  
13    operation and that satisfy the auditing condition, and  
14            a recording mechanism configured to record the audit records in an  
15    audit record store; and  
16            a returning mechanism configured to return the database operation result;  
17            wherein selectively auditing the access involves automatically modifying  
18    the database operation prior to processing the database operation,  
19            wherein satisfying the auditing condition allows selective auditing of the  
20    database operation and not for other rows;  
21            wherein satisfying the auditing condition allows selective auditing of the  
22    database operation; and

23           wherein if the database operation modifies at least one entry in the  
24    relational database, the apparatus uses a relational database system trigger to  
25    create and record the audit record for the modification to the relational database.

1           33 (Canceled).

1           34. (Previously presented) The apparatus of claim 32, wherein the auditing  
2    condition includes a condition for at least two fields within the relational database.